

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1.-25. (canceled)

26. (currently amended) A heat exchanger plate for a plate heat exchanger comprising:  
a heat transfer area and a border area, the border area being located outside the heat transfer area and extending along and delimiting the heat transfer area,  
wherein a curable polymer material includes a first component and a second component, which are mixed to form an applicable polymer mixture, and the polymer material is ~~applied~~ applied, in an uncured state, to and cured on the border area of the heat exchanger plate such that the polymer material extends along the whole or parts of the border area area, the curable polymer material being attached to the heat exchanger plate by being cured on the border area, and ~~[[is]]~~ being arranged to form a gasket for gasket, wherein the gasket after curing includes an upper exposed surface which in a cross section has a softly curved convex shape and is suitable for providing tight abutment against an adjacent plate in the plate heat exchanger.

27. (previously presented) A heat exchanger plate according to claim 26, wherein the curable polymer material includes silicon.

28. (previously presented) A heat exchanger plate according to claim 27, wherein the curable polymer material includes Liquid Silicon Rubber.

29. (previously presented) A heat exchanger plate according to claim 26, wherein the curable polymer material after curing forms a lower, substantially planar surface attached directly to the border area.

30.-31. (canceled)

32. (previously presented) A heat exchanger plate according to claim 26, wherein the applicable polymer mixture before curing is highly viscous.

33. (previously presented) A heat exchanger plate according to claim 26, wherein the applicable polymer mixture has a viscosity in the range from 300 to 800 Pas.

34. (previously presented) A heat exchanger plate according to claim 26, wherein the border area includes a bottom surface along substantially the whole border area and at least a first side surface extending along the whole border area and between the bottom surface and the heat transfer area, and wherein the first side surface forms an angle to the bottom surface.

35. (previously presented) A heat exchanger plate according to claim 34, wherein the border area includes a second side surface, extending along the whole border area outside the bottom surface, and wherein the second side surface forms an angle to the bottom surface.

36. (previously presented) A heat exchanger plate according to claim 26, the plate including an edge area located outside the border area and extending around and limiting the border area.

37. (previously presented) A heat exchanger plate according to claim 35, wherein the second side surface extends between the bottom surface and the edge area.

38. (previously presented) A plate heat exchanger comprising a plate package having heat exchanger plates according to claim 26.

39. (currently amended) A method for manufacturing a heat exchanger plate comprising:  
providing a sheet,  
cutting and forming the sheet to a heat exchanger plate with a heat transfer area, the plate having a number of open portholes, and a border area, the border area being located outside the heat transfer area and extending along and delimiting the heat transfer area,  
applying a curable polymer material having a first component and a second ~~component~~ component, in an uncured state, to the border area of the heat exchanger plate such that the polymer material extends along the whole or parts of the border area, and mixing the two components to form an applicable polymer mixture substantially immediately before applying the curable polymer material, and  
curing the polymer material to form a gasket ~~for attached to the border area, the gasket after curing including an upper exposed surface which in a cross section has a softly curved, convex shape and being suitable for being provided adjacent another heat exchanger plate in a plate heat exchanger for forming a tight abutment against [[an]] the adjacent plate. plate in a plate heat exchanger.~~

40. (previously presented) A method according to claim 39, wherein the curable polymer material includes silicon.

41. (previously presented) A method according to claim 40, wherein the curable polymer material includes Liquid Silicon Rubber.

42. (canceled)

43. (previously presented) A method according to claim 39, wherein the applicable polymer mixture before curing is highly viscous.

44. (previously presented) A method according to claim 39, wherein the applicable polymer mixture has a viscosity in the range from 300 to 800 Pas.

45. (previously presented) A method according to claim 39, wherein the first component includes silicon and optionally a catalyst, and the second component includes silicon and an activator, and further wherein the parts of the two components in the polymer mixture are substantially equal.

46. (previously presented) A method according to claim 45, wherein the viscosity of the two components are substantially equal.

47. (previously presented) A method according to claim 39, wherein the curable polymer material is applied by means of an automatic handling device arranged to carry a nozzle for discharge of the polymer material and for guiding the nozzle along the border area.

48. (previously presented) A method according to claim 39, wherein the curable polymer material is cured at a raised temperature.

49. (previously presented) A method according to claim 48, wherein the raised temperature is in the range from 150°C to 250°C.

50. (previously presented) A method according to claim 39, wherein the curable polymer material is cured during a curing time that amounts to at least 0.5 hr.